

Rock eater completes tunnel

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By KAYLENE NELSEN
Herald Senior Reporter

The huge, rock-eating mole digging a 5,000-foot tunnel through a mountain in Provo Canyon broke through the end this weekend and only missed the center of the tunnel by about two inches.

Sheldon Talbot, of the Central Utah Water Conservancy District which has commissioned the tunnel digging, said the tunnel will now be ready for a concrete lining before the pipe is put in place inside it.

The tunnel will house a portion of the big green pipe that runs through the canyon in order to bypass a slide that has sometimes caused it to break.

The pipe, first a wooden structure and then replaced with the present steel in 1948 and 1952, used to carry water to the Olmstead Power Plant. It now sends water to a treatment plant in north Utah County.

Morris-Knudsen is doing the work on the \$12 million project. Site manager Lee Renegar said the "mole" that dug through the shale took four months to travel nearly

5,000 feet. Work began Jan. 2 as the machine cut a 13-foot-diameter hole with huge cutters on the front of the head. A laser system kept the machine on track, making it possible to come as close to the mark as it did this time. The mole did not travel a straight path but had to make a couple of turns to bypass the slide above.

The project proceeded around the clock with few problems until hitting an aquifer that feeds part of the Thayer springs which supply some of the water for Provo. Renegar said although it was a problem, it was not unsolveable. On Monday crews finished piping the aquifer over the area where the green pipe will be, and water was turned back into the springs. A few leaks inside the tunnel still needed to be sealed but he said those would be no problem.

Merrill Bingham, director of water resources for Provo, said engineers had predicted little or no chance of hitting an aquifer. The 300-gallon-per-minute flow was a surprise to the workers.

But Bingham said the flow only represented 1 percent of the supply when 7,000-8,000 gallons a minute are coming from the springs at this time of year. The springs are also at half production this year because of the last few winters with little snowpack in the mountains to feed the springs.

With the installation of the pipe to carry the spring water over the tunnel "it looks like we'll get every drop back," he said, noting that "300 gallons a minute of spring water is a precious commodity."

When crews first hit the aquifer, the city turned off all the water from springs in the Thayer Flats area, Bingham said. After some study it was discovered that only some of the springs were affected. But the city found it necessary to bring one of its nine wells on sooner than it otherwise would have to handle water needs while the aquifer was piped.

Bingham said the water conservancy district would be picking up the cost of pumping from the well while the springs were off.



ysis of self put to the test



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Royko**

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The trouble was, it was designed for teen-agers, to determine whether they were goody-goodies (0 to 21 points), normal (25 to 35 points), or depraved and dissipated (36 points and up).

Although I am no longer a teen-ager, at least most of the time, I decided to take the test anyway.

My answers were based on the things I

iked by self-analysis appear in the features and magazines.

A multiple-choice answer has a different add up the points and shape you are in.

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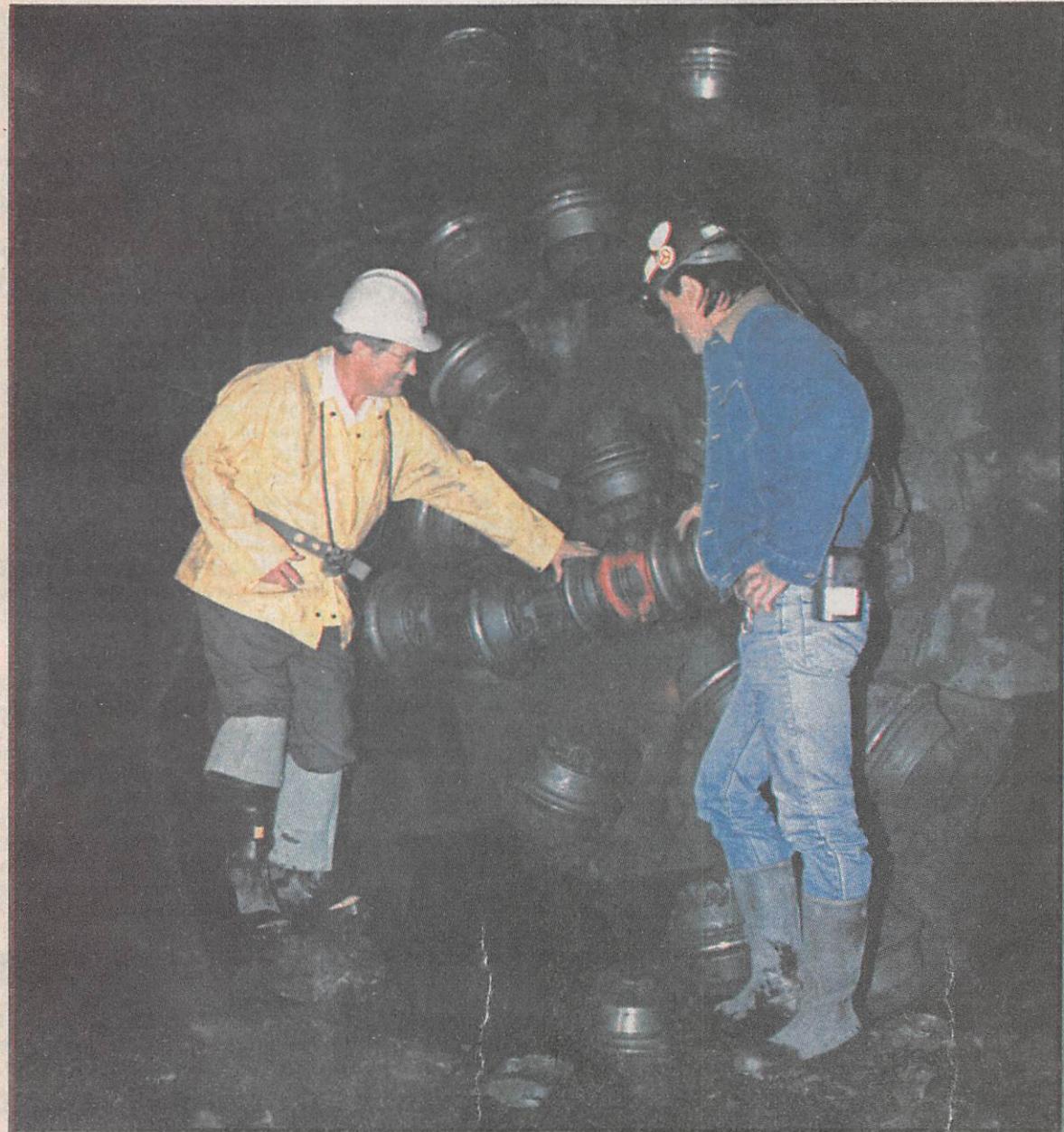
He got 35 points, putting him on the edge of dissipation. He smiled and said, "Some day, I'll tell you about the girl next door."

So I asked a woman in her 30s to take the test. She is a proper sort who attended parochial schools, and I've never known her to swear, spit or kick children. And she got 32 points.

"You want to tell me about the boy next door?" I asked. She just winked.

It made no sense and left me feeling depressed. Me, a goody-goody? It was impossible. In every neighborhood, there is a youth who is so dangerous an influence that all the parents tell their kids that they can't associate with him.

Well, I was so dangerous an influence that my brother wasn't permitted to associate with me. Respectable girls blushed in my presence. In a survey taken by adult reprobates in the neighborhood, I was voted Rookie of the Year.



Herald Photo/Brian Tregaskis

Eating rock

The huge rock-eating mole digging a 5,000-foot tunnel through a mountain in Provo Canyon broke through the end this weekend and only missed the center by about two

inches. Sheldon Talbot (left) of the Central Utah Water Conservancy District and Lee Renegar, site manager for Morris Knudsen, show how close they were. See story, A5.

boud cocaine.

A U.S. official who briefed reporters on Monday said the United States plans to "double or triple" the number of U.S. trainers who are helping Bolivians in the war against coca leaf production. At present, the number of such trainers rotating in and out of Bolivia runs between 20 and 50.

grain — 1,000 hectares of coca destroyed in April alone.

The U.S. officials, asking not to be identified, said 3,500 hectares have been eliminated thus far this year. Still, more than 50,000 hectares are being used for coca production.

Bolivia has been singled out as one of the principal recipients of

council session.

Berlin said there will then need to be master plan amendments and zoning changes put into place.

"We'll need a very detailed engineer's analysis of the hillside a well," said Berlin.

"But these developers are very environmentally conscious. They understand what is involved with hillside development."

Berlin said the city's concept plan will be the basic footprint and any substantial deviations will have to be approved by Orem City Council.

The concept plan calls for the golf course to wrap around the research park area and leave nearly 60 acres open and landscaped.

The city will be contributing 14 acres of hillside property plus the underlying fee for lease of the golf course in return for a percentage of the park's profits, based on the value of the city's contribution.

"This will be developed under limited partnership agreement with the city a limited partner as well as an investor."

Councilwoman Lucile Steele reported following the closed session that the project looks very good "it's exciting."

Initially, Richards Development will invest \$15 million into infrastructure, Barrus said.

Provided the company can pick up the options on all the property involved, businesses could be operation within 18 months and the golf course expansion be complete by spring 1992.

Local investors are being sought for the balance of the development. While foreign investors have already committed to joining in the venture, he added, he would prefer to advance the opportunities to local firms.

"I went to BYU. I have a great love for this area. I wanted to stay in this area and always had a great affinity for it. When I heard about

MURPHY:

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who Murphy was until they returned and tried to identify whose trophy had been left.

"We estimated the value of Bear from the records we've kept on what we've spent on him. We are going to try and breed him for sledding dogs so we have kept track. It comes to about \$500 so far."

Bear, a 6-month-old puppy, was given to Mrs. Gardner by her husband and is now a constant companion.

Mrs. Gardner reportedly saw the group home residents playing with

Bear just after he disappeared and called the police to help her recover him. Police reported that they did recover Bear at the home.

Now that he's home, she's afraid for his safety.

"I don't think people understand. We've tried so hard to keep Bear healthy and strong.

"They're saying he can't be worth \$500. I know we've spent that much on him and we don't have a lot."

"We don't have any hatred for this man, for these people."

The Gardners are going to relocate as soon as possible. Home doesn't feel like a safe place any longer and Mrs. Gardner is worried about the future.

In the meantime, the phone keeps ringing and the news media keeps promoting the situation, said Mrs. Gardner.

"I'm afraid at night."

Mrs. Gardner said Bear will be immediately moved, as his dog run is too far away from the house for her to hear if he's in trouble.

She's concerned for Murphy too. "I feel sorry for him. We don't wish him any ill."

But following the newscast on Murphy, the calls started, she said.

"People were just awful to us. I can't believe this."

ALPINE:

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them. We have the intention of writing letters to the school boards," Adams said.

The Legislature's Republican majority assistant whip, Byron L. Harward who also worked with H.B. 474, said the possibility of loopholes was discussed in caucuses. But he said the alternative of lowering the mill levy in one area and then restoring it with the state equalization money was never envisioned.

Harward said he didn't have a problem with Alpine raising or lowering mill levies, but believes restoring the tax money with the gained state funds was against the law.

However, Harward said the only recourse to stop the district would

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eral is probably looking at anyone who worked there.

John Clark of the attorney general's office said last week the inves-

